


```
QY 607 CCTTTCAATCCAGGTAAAGTTAATGCACACACCTTGTCGGCAATTAACCTGCTAATGTT 666
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Db 793 TCTGGGATGCACATCATATACAGCACCTGCGCCCTGAAGTGAAGTGGCTCAGAGCT 852
QY 667 GCTTAAGTACTTTAGTGAATGATGTACAATAACCGCATATATGTAACTGTCATGCCCT 726
    |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| ||||
Db 853 ATGCAAGCTCTTTAGTATGATGCTGGAATCAAAGCTCAAAGTGTACAGTATTAAATGCA 912
QY 727 GATGGTACTATAGTGTCTGTGAGTAATAATATGGTGTAGCACAAACACTGNAITGACT 786
    || || || || || || || || || || || || || || || || || || || || ||
Db 913 CATGGCAAGTACACCTGTGTGGAGATTTATATGAGGTTCAAGGATTAATAATACATTC 972
QY 787 AATGTGCTCTTAACCTTTTACAATAATAATGCTCCCTAAATTTCAATCCAGGTAAT 840
    |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| ||||
Db 973 GGTATGCTCGAAGTCATTAATAAAGTAAGTTCACATAATCAATGACTGGACAT 1026

RESULT 2
US-09-451-117-1
; Sequence 1, Application US/09451117
; Patent No. 6277973
; GENERAL INFORMATION:
; APPLICANT: Jenkins, Mark C.
; APPLICANT: Fayer, Ronald
; APPLICANT: Trout, James
; TITLE OF INVENTION: Cloning and Expression of a DNA Sequence Encoding A 41
; Patent No. 6277973
; TITLE OF INVENTION: kDa Cryptosporidium parvum Oocyst Wall Protein
; FILE REFERENCE: 0046.99
; CURRENT APPLICATION NUMBER: US/09/451,117
; CURRENT FILING DATE: 1999-11-30
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 740
; TYPE: DNA
; ORGANISM: Cryptosporidium parvum
US-09-451-117-1

Query Match 3.5%; Score 49.4; DB 4; Length 740;
Best Local Similarity 46.2%; Pred. No. 0.0051;
Matches 164; Conservative 0; Mismatches 191; Indels 0; Gaps 0;

QY 621 TAAAGTTAATGCACACCTTGTCGGCAATTAACCTGCTAATGTTGCTTAAGTACTTT 680
    || || || || || || || || || || || || || || || || || || || || ||
Db 369 TACTACTCAATCAATGGAAGTTACTGATCTACTAATATTGGTAATATGAGTGGTATTATTAC 428
QY 681 AGGTAATGATGTACAATAACCGCATATATGTAACGTTGCATGCCCTGATGGTACTATAAG 740
    || || || || || || || || || || || || || || || || || || || || ||
Db 429 ATCTAGTGGTATCTATAGCTGTACTAATAATCTTAATGGTAAATAATAATAGTAATAG 488
QY 741 TGCTGCTGGAGTAATAATTTGGTAGCAACAAACACACTGAATGTACTAATTTGCTCCCTAA 800
    || || || || || || || || || || || || || || || || || || || || ||
Db 489 TAATATTGGATCAGAAATTTATACCAAGTTGGTACTTGTTCTTCTACTAGTATTGGTAA 548
QY 801 CTTTTACAATAATAATGCTCCCTAATTTCAATCCAGGTAATAGTACATGCCCTACCTTGGCC 860
    || || || || || || || || || || || || || || || || || || || || ||
Db 549 TAGTAATGCTGTTGCTTTTACTGCTATTTCATCCTAATAATAACAAATAGCAATAATATAA 608
QY 861 ACCAATAAAGATTATGTTGCTGAAGCCACTGCAGGTGGTGGCGCTACTTTAGCCAAATA 920
    |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| |||| ||||
Db 609 TAATAATAATAATAATAATAGTAATACCACTTACTACTTGTGCTACTAATGCTAATAT 668
QY 921 ATGTAATATTGATGCCCTGATGGTACTGCAATTTGCTAGTGGAGCAACTAATAT 975
    || || || || || || || || || || || || || || || || || || || || ||
Db 669 TACTACTAATACTACTAATACTACTACTACTACTACTACTAATAATAATAATAAT 723
```

RESULT 3
US-08-169-927-1
; Sequence 1, Application US/08169927
; Patent No. 578341
; GENERAL INFORMATION:

APPLICANT: Carl, Mitchell
APPLICANT: Dobson, Michael E.
APPLICANT: Ching, Wei Mei
APPLICANT: Dasch, Gregory A
TITLE OF INVENTION: Gene and Protein Applicable to the
TITLE OF INVENTION: Preparation of Vaccines for Rickettsia prowazekii and
TITLE OF INVENTION: Rickettsia typhi and the Detection of Both
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Counsel, Naval Medical R & D Command
STREET: Bldg. 1, T-12, 8901 Wisconsin Ave.
CITY: Bethesda
STATE: MD
COUNTRY: USA
ZIP: 20889-5606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/169,927
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/742,128
FILING DATE: 08/09/91
ATTORNEY/AGENT INFORMATION:
NAME: Spevack, A. David
REGISTRATION NUMBER: 24,743
REFERENCE/DOCKET NUMBER: 75,976
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 295-6759
TELEFAX: (301) 295-1022
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5319 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
ORIGINAL SOURCE:
ORGANISM: Rickettsia prowazekii
STRAIN: Breinl
FEATURE:
NAME/KEY: -35_signal
LOCATION: 340...345
FEATURE:
NAME/KEY: -10_signal
LOCATION: 363...368
FEATURE:
NAME/KEY: CDS
LOCATION: 391...5226
FEATURE:
NAME/KEY: RBS
LOCATION: 379...386
FEATURE:
NAME/KEY: stem_loop
LOCATION: 5270...5306
PUBLICATION INFORMATION:
AUTHORS: Carl, M. E.
AUTHORS: Dobson, M. E.
AUTHORS: Ching, W. M.
AUTHORS: Dasch, G. A.
TITLE: Characterization of the gene encoding the
TITLE: protective S-layer protein of Rickettsia
TITLE: prowazekii; presence of a truncated identical
TITLE: homolog in rickettsia typhi
JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
DATE: 1990

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; RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 5319
; US-08-169-927-1
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; Query Match          3.5%; Score 49.2; DB 1; Length 5319;
; Best Local Similarity 41.5%; Pred. No. 0.011;
; Matches 321; Conservative 0; Mismatches 453; Indels 0; Gaps 0;
;
Qy 247 GCTACTGCTAAATTTAGTACATAATGTACGTTAAATGCGCTGCTGTCGCAATTCGA 306
Db 2224 GCTATTACGAGTTAGTTATAGAAATTAATGTTGCTAGTACAACTTAATCACAATCTTAC 2283
Qy 307 GGTGACCAACAGATATGCGCAATTAATCAGAAATGTTAAATTTAGAAATTAATTTT 366
Db 2284 TTAATAACAANAATATCAATGCTGCAACCAAGGTCAAAATATCGTTCCGCTGATCCT 2343
Qy 367 TATAATGAAATGCTCCAAATTTTAATGCAAGGTGCTAGTACATGACAGCTTGTCCGTA 426
Db 2344 CTTAATACTAATACTACTCTGCTGATGTTAGTACAAATTTAGGTAGTGCAGAAATCCACTT 2403
Qy 427 AACAGAGTTGGTGGTGCATTTGCTGCTGTAATGCGCGTACCATAGTGCATATGTAAC 486
Db 2404 TCTACTATTCTATTTGCCACTAAAGCTGCTAATGCTGCTCTATATTAATGTTAGTAAA 2463
Qy 487 GTGCGATGCTCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 546
Db 2464 GGAGTAATTTATATGCTAATAATATTACTACTAAGATGCTGCTGCTGCTGCTGCTGCT 5523
Qy 547 TTCACAGATGCTGTTAAATGTTAGCTTAACTTTTACTATAATGTTAAATGTTAACT 606
Db 2524 TTTAGGCTGGTGGTACAGATATAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2583
Qy 607 CCTTCAATCCAGTAAAGTTAAATGCACACCTTCTCGCGCAATTTAAACCTGCTAAATGTT 666
Db 2584 CTTAATAATTTAATAATTAGATAATGCTACTACTGTTAAGTTTAAAGTTGATACAACTTT 2643
Qy 667 GCTTAAGCTACTTTAGGTAAATGCTACATAACCGCAATATGTTAAGTTGCTGCTGCTGCT 726
Db 2644 AATGGTGGTAAATTTGAAGGTAAATCCATCTTTGCAAAATTAGCAATAATATATACTACT 2703
Qy 727 GATGGTACTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 786
Db 2704 GATCATGTTGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2763
Qy 787 AATTTGCTCCTAACTTTTACATAATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 846
Db 2764 ACCGTAACATAATTAACAAGGTGCTTATTTTGGTGTGTTTAAACCAAGTAATTTTCT 2823
Qy 847 TGCCTACCTTGGCCAGCAATAAGATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 906
Db 2824 GGTCCAGGTAAACATAGTATTTAATGAGATAGGTAAATGTAAGAAATTTGATGCTGCTGCT 2883
Qy 907 ACTTTAGCAATAATGTAATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 966
Db 2884 GCTAAATCAATTTCTTTTGAAGTGAAGTTTGGTACATCTTTTATTTTACCTAGTGGT 2943
Qy 967 ACTAATTTATGTAATTAACAGATGCTAAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
Db 2944 ACTCCATTAGATGTTTAAACAAATTAAGTACCGTATAGGTAAATGCTGCTGCTGCTGCTGCT 2997

RESULT 4
US-08-728-323A-1/c
; Sequence 1, Application US/0872832A
; Patent No. 5948676
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Bohenzky, Roy A.
; APPLICANT: Russo, James J.
; APPLICANT: Edelman, Isidore S.
; APPLICANT: Moore, Patrick S.
; TITLE OF INVENTION: Immediate Early Protein From Kaposi's
; TITLE OF INVENTION: Sarcoma-Associated Herpesvirus, DNA
; TITLE OF INVENTION: Encoding Same And Uses Thereof
```

```
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/728,323A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/52268/JPW/MSC/SKS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-278-0400
; TELEFAX: 212-391-0525
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3489 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..3489
; US-08-728-323A-1

Query Match          3.3%; Score 45.8; DB 2; Length 3489;
Best Local Similarity 44.0%; Pred. No. 0.061;
Matches 194; Conservative 0; Mismatches 247; Indels 0; Gaps 0;
;
Qy 592 AATAATGCTAATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 651
Db 2473 ACTCTGCTGCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2414
Qy 652 AAACCTGCTAATGTTGCTTAAAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 711
Db 2413 CTAACTGCTGCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2354
Qy 712 AACGTTGCTATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 771
Db 2353 CCTCTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2394
Qy 772 AACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 831
Db 2293 GCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2234
Qy 832 CCAGTAAATAGTACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 891
Db 2233 CTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2174
Qy 892 GCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 951
Db 2173 GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2114
Qy 952 ATTGCTAGTGGAGCACTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1011
Db 2113 CATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2054
Qy 1012 AACTTTTATTTTATGTTGTAAT 1032
Db 2053 GCTCATCTGCTGCTGCTGCTCAT 2033
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Thu Feb 20 11:10:13 2003

us-09-497-967-3.rn1

RESULT 5
US-09-298-568-1/c
; Sequence 1, Application US/09298568
; Patent No. 6322792
; GENERAL INFORMATION:
; APPLICANT: Kieff, Elliott D.
; APPLICANT: Ballestas, Mary E.
; APPLICANT: Kaye, Kenneth M.
; TITLE OF INVENTION: RHADINO VIRUS LANA ACTS IN TRANS ON A UNIT OF RHADINO
; TITLE OF INVENTION: RHADINO VIRUS DNA TO MEDIATE EFFICIENT EPISOME PERSISTENCE
; FILE REFERENCE: 16412-10001R
; CURRENT APPLICATION NUMBER: US/09/298,568
; CURRENT FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,422
; EARLIER FILING DATE: 1998-11-19
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 3489
; TYPE: DNA
; ORGANISM: Kaposi's sarcoma-associated herpesvirus
US-09-298-568-1

Query Match 3.3%; Score 45.8; DB 4; Length 3489;
Best Local Similarity 44.0%; Pred. No. 0.061;
Matches 194; Conservative 0; Mismatches 247; Indels 0; Gaps 0;
QY 592 AATAATGGTAATCTCTTTCAATCCAGGTAAAGTTAATGACACACTTGTCCGGCAATT 651
Db 2473 ACTCCTGCTCTGCTCTCTAATCTTAACTGCTCTCTTAACTCCTGCTCTCTCTCTCT 2414
QY 652 AAACCTGCTAATGTTGGTAAGTACTTTAGGTAATGATGCTACAATAACCGCATATGT 711
Db 2413 CTAACCTGCTCTGCTCTCTCTAATCTTAACTGCTCTCTCTCTCTCTCTCTCTCT 2354
QY 712 AACCTGCTGCTGCT 2294
Db 2353 CCTCTAATCTGCT 2294
QY 772 AACACTGAATGTAATGTTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 831
Db 2293 GCTCCTGCTGCTGCT 2234
QY 832 CCAGGTAATGATACATGCTACCTTGCCAGCAAAATAGGATTATGGTGTGAAGCCACT 891
Db 2233 CCGTCTGCTGCT 2174
QY 892 GCAGGTGGTCCGCTACTTTAGCCAAATATGTAATGTAATGCTGCTGCTGCTGCTGCT 951
Db 2173 GCTGCTGCTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2114
QY 952 ATTGCTAGTGAGCAACTAATTAATGTAATATATAACAGAAATGCTCTCTCTCTCTCT 1011
Db 2113 CATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2054
QY 1012 AACTTTATTTTGGATGTAAT 1032
Db 2053 GCTCATCTGCTGCTGCTGCT 2033

RESULT 6
US-09-134-001C-2243
; Sequence 2243, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08

; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 2243
; LENGTH: 11091
; TYPE: DNA
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-2243
Query Match 3.3%; Score 45.8; DB 4; Length 11091;
Best Local Similarity 46.9%; Pred. No. 0.088;
Matches 143; Conservative 0; Mismatches 162; Indels 0; Gaps 0;
QY 726 TGATGGTACTATAAGTGTCTGCTGGAGTAATAATTGGGTAGCACAAAACACTGTAATGTAC 785
Db 3906 TGATGGTATTGTGAGTGTGTAGACAAAGCATAAATGCAATTTACACCTGATACATCAAT 3965
QY 786 TAATGTGCTCTCTAACCTTTTACAATAATAATGCTCTCTAAATTTCAATCCAGTAAATAGTAC 845
Db 3966 TAAAGAAATGCTAAATAATGATATTGATATTAAAGCAGCTGATAGAAATAATAAATTCA 4025
QY 846 ATGCTACCTTTGCCAGCAATAAAGATTATGTTGCTGAAGCCACTGCAGGTGTGCCGC 905
Db 4026 AAGAATAATGATGCTACAGATGAAGAAATTCAGAAGCGAATCGTAAATTTGAAGAGC 4085
QY 906 TACTTTAGCCAAATAATGTAATATTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 965
Db 4086 TAAGATTGAAGCAAAAGATAATATTCAACGCAATAGTAGACTAGAGATCAAGTAATGAGC 4145
QY 966 AACTAATTTATGTAATATTATAACAGAAATGCTCTAAATTTGCTGCTGCTGCTGCTGCT 1025
Db 4146 GAAACTAATGTAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 4205
QY 1026 TGGTA 1030
Db 4206 ACCTA 4210
RESULT 7
US-08-770-379-20
; Sequence 20, Application US/08770379
; Patent No. 5849564
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Bohenzky, Roy A.
; APPLICANT: Russo, James J.
; APPLICANT: Edelman, Isidore S.
; APPLICANT: Moore, Patrick S.
; TITLE OF INVENTION: POLYPEPTIDES FROM KAPOSI'S SARCOMA-ASSOCIATED
; TITLE OF INVENTION: HERPESVIRUS, DNA ENCODING SAME AND USES THEREOF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/770,379
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 52342
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400


```

; TITLE OF INVENTION: AND TREATMENT OF EHRlichia INFECTION
; FILE REFERENCE: 210121.439C4
; CURRENT APPLICATION NUMBER: US/09/295,028
; CURRENT FILING DATE: 1999-04-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 2129
; TYPE: DNA
; ORGANISM: Ehrlichia sp.
US-09-295-028-39

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Query Match 3.1%; Score 43.4; DB 4; Length 2129;
 Best Local Similarity 44.3%; Pred. No. 0.19;
 Matches 277; Conservative 0; Mismatches 336; Indels 12; Gaps 2;

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QY 287 CTGCTGTACCGCAATTCAGGTGGAGCACACAGATTATGCGAGCAATTAATCAGAGATGTG 346
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 619 CTTCTGCTGCATACAGCATCAGCTTCTACAGATATCTTCAGACTTCAGATCACCTTCAG 678

QY 347 TTAATGTAGAAATTAATTTTATAATGAAATGCTCCAAATTTTAAATGCGAGGTCTAGTA 406
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 679 TAACACCAAGAACTGTAGACTCAGGTGTGCTGCTGCAGAACTTCAGGAGCTGATCTTA 738

QY 407 CATGCACAGCTTGTCCGGTAAACAGAGTTGGTGGTCATTGACTGCTGTTAATGCCGCTA 466
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 739 GTTGTTCGCTTCTGCAGCATCAGCTTCTCAAGATATCTCCCTTTAGAAGAACTTCTGTTCTCT 918

QY 584 ATAATGTAATAATGTAATCTCCTTTCAATCCAGGTAAAGATTAAATGCGAGGTGTGTC 643
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 919 TTACTTCTACAGGAGCTTCAGTTCCTCTAGTGTCTTCTGCAATTTCTGCTCTTGTGTGAC 978

QY 644 CGCAATTAACCTGCTAATGTTGCTTAAGCTACTTTTACATTAATAATGCTCCTA 823
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1099 GAG-----CTGATTCAGTTGTTGGCTTCTGGAGCAACTACCACTTCTTGAAGCT 1149

QY 824 ATTTCAATCCAGGTAAATGATACATGCTACCTTGCCCGAGCAATAAAGATTATGCTGTC 883
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1210 CAGTACTACAGGTACTTGCCTAC 1234

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RESULT 12
 US-09-106-582-39
 ; Sequence 39, Application US/09106582
 ; Patent No. 6306402
 ; GENERAL INFORMATION:
 ; APPLICANT: Reed, Steven G.
 ; APPLICANT: Lodes, Michael J.
 ; APPLICANT: Houghton, Raymond
 ; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS AND
 ; NUMBER OF SEQUENCES: 73
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SEED and BERRY LLP

```

; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/106,582
; FILING DATE: 29-JUN-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.439C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-622-4900
; TELEFAX: 206-682-6031
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2129 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-09-106-582-39

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Query Match 3.1%; Score 43.4; DB 4; Length 2129;
 Best Local Similarity 44.3%; Pred. No. 0.19;
 Matches 277; Conservative 0; Mismatches 336; Indels 12; Gaps 2;

```

QY 287 CTGCTGTACCGCAATTCAGGTGGAGCACAGATTATGCGAGCAATTAATCAGAGATGTG 346
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 619 CTTCTGCTGCATACAGCATCAGCTTCTACAGATATCTTCAGACTTCAGATCACCTTCAG 678

QY 347 TTAATGTAGAAATTAATTTTATAATGAAATGCTCCAAATTTTAAATGCGAGGTCTAGTA 406
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 679 TAACACCAAGAACTGTAGACTCAGGTGTGCTGCTGCAGAACTTCAGGAGCTGATCTTA 738

QY 407 CATGCACAGCTTGTCCGGTAAACAGAGTTGGTGGTCATTGACTGCTGTTAATGCCGCTA 466
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 739 GTTGTTCGCTTCTGCAGCATCAGCTTCTCAAGATATCTCCCTTTAGAAGAACTTCTGTTCTCT 918

QY 467 CCATAGTCGCAATATGTAACGTCGCACTGCTCTACTGCTGCTGCTGCTGCTGCTGCTGCT 526
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 799 CAATCGCTTCTGCGCTTCAACACAGGTAATTCGCTTCAAGTACTACAGGTACTTGTG 858

QY 527 CTACTGATTATGTTAGATCATTACAGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 583
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 859 CTACAGGTGCTCAAGATCTATCAAGTATCTTCTTTAGAGAACTTCTGTTCTTCTTCTT 918

QY 584 ATAATGTAATAATGTAATCTCCTTTCAATCCAGGTAAAGATTAAATGCGAGGTGTGTC 643
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 919 TTACTTCTACAGGAGCTTCAAGTCTAGTTCCTCTAGTGTCTTCTGCAATTTCTGCTCTTGT 978

QY 644 CGGCAATTAACCTGCTAATGTTGCTTAAGCTACTTTTACATTAATAATGCTCCTA 703
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 979 CAGAGATTACTTCTTTTGGCTTACATCAGCAATTAGCTTCTACAGATTAATTCAGACTTTA 1038

QY 704 CATAATGTAAGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 763
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1039 GATCACCTTCAGCAACACAGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1098

QY 764 TAGCACAACACTGAAATGTAATGTTGCTCCTTCAATCCAGGTAAAGATTAAATGCTGTC 823
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Db 1099 GAG-----CTGATTCAGTTGTTGGCTTCTGGAGCAACTACCACTTCTTGAAGCT 1149

QY 824 ATTTCAATCCAGGTAAATGATACATGCTACCTTGCCCGAGCAATAAAGATTATGCTGTC 883
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Db 1150 TATTTCTTCTAGTATGTTCAATCGCTTCTGCGAGCTTCAACACAGGTAATTCGCTT 1209

QY 884 AAGCCACTGCGGTGCTCCGCTAC 908
  ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1210 CAGTACTACAGGTACTTGCCTAC 1234

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THERAPY

QY	884	AAGCACTGCAGGTGGTGC	GCTAC	908
Ddb	1210	CAGTACTACAGGTACTTGCGCTAC	1234	
 RESULT 13 US-09-210-168-1				
; Sequence 1, Application US/09210168				
; Patent No. 6355424				
; GENERAL INFORMATION:				
; APPLICANT: Lorincz, Attila T.				
; TITLE OF INVENTION: ASSESSMENT OF HUMAN PAPILLOMA VIRUS-RELATED DISEASE				
; FILE REFERENCE: 26294005US2				
; CURRENT APPLICATION NUMBER: US/09/210,168				
; CURRENT FILING DATE: 1998-12-11				
; PRIOR APPLICATION NUMBER: U.S. 60/082,167				
; PRIOR FILING DATE: 1998-04-17				
; PRIOR APPLICATION NUMBER: U.S. 60/070,486				
; PRIOR FILING DATE: 1998-01-05				
; PRIOR APPLICATION NUMBER: U.S. 60/069,426				
; PRIOR FILING DATE: 1997-12-12				
; NUMBER OF SEQ ID NOS: 5				
; SOFTWARE: PatentIn Ver. 2.1				
; SEQ ID NO 1				
; LENGTH: 1390				
; TYPE: DNA				
; ORGANISM: Human papillomavirus				
; FEATURE:				
; OTHER INFORMATION: L2-HPV16				
US-09-210-168-1				
 Query Match 3.0%; Score 42.6; DB 4; Length 1390;				
Best Local Similarity 44.1%; Pred. No. 0.26;				
Matches 226; Conservative 0; Mismatches 284; Indels 3; Gaps 1;				
QY	633	CACACCTTTGTCGGGAATTAAACCTGCTAATGTGTGTTTAAGCTACTTTTAGTGAATAATGATCC	692	
Ddb	834	CACTGCCACTAACCTTATTACATATGATAATCTGTCATATGAAGGTATAGATGTGGATAA	893	
QY	693	TACAATAACCGCATAATCTACGTTGCATGCCTGTATGCTACTATTAAGTCTGCTGGAGT	752	
Ddb	894	TACATATATTTTCTAGTATGATAATAGTATTAAATATAGTCCAGATCCTGACTTTTT	953	
QY	753	AAATAATGGGTAGCACAAAACACTGAATGTAATAATGTGCTCCTTAACCTT--TACAA	809	
Ddb	954	GGATATAGTTGCTTTTACATAGGCCAGCATTAACCTCTFAGGCGTACTGGCATAGGTACAG	1013	
QY	810	TAATAATGCTCCTAATTTTCAATCCAGGTAAATAGTACATGCTACCCTTGCCCCAGCAAATAA	869	
Ddb	1014	TAGAATTGTTAATAACAACACACTACGTACTCTCGTAGTGGAAAAATCTATAGGTCTAAGT	1073	
QY	870	AGATTATGCTGAAGCCACTGCAGGTGGTGGCGCTACTTTAGCCAAATAATGTAATAT	929	
Ddb	1074	ACATTATTATTATGATTAAAGTACTATTGATCCTGCAGAGAATAAGCAATACAAACTAT	1133	
QY	930	TGCATGCCCTGATGCTGCAATTTGCTAGTGGAGCACTAAATTTATGTAATATTATAAAC	989	
Ddb	1134	ACACCTTCTACATATACCTACCCTTCACATGCAGCCTACCCTACTTCTATTATAATAGG	1193	
QY	990	AGAACTCTAAATTTGCTGCTAECTTTTATTTTGATGGTAAATAATTTCTAGCCAGGAAG	1049	
Ddb	1194	ATTATATGATATTTATGCAGATGACTTTATTACAGATACCTTCAACACCCGGTACCCTC	1253	
QY	1050	TAGTAGTCAAGCATGTPCCAGCAATAAAGTTTAAAGGGCGTGTAGCAACTCGAGGTGG	1109	
Ddb	1254	TGTACCTCTACATCTTTATCAGGTATATTCTCCGAAATACAACTAATTCCTTTTGGTGG	1313	
QY	1110	TACTGCTACTTTAATFGCAATAATGTCGCCCTGA	1142	
Ddb	1314	TGCATACAATAITTCCTTTTASTAGTACAGTCTGA	1346	

Db 972 ACATTATATATGATTAAAGTACTAATGATCCTGCAGAGAAATAGAAATACAACTAT 1031
Qy 930 TGCATGCCCTGATGCTACGAATGCTAGTGCAGCAACTAATATGTAATATTAAC 989
Db 1032 AACACCTTACATATATCTACCACTTACATGCGAGCCTCACCTACTTCTTATTAATAGG 1091
Qy 990 AGAATGCTAAATTTGCTGCTAACTTTTATTTTATGATGTAATAATTTCTAGGCGAGGAG 1049
Db 1092 ATTATATGATATTTATGTCAGATGACITTTATACAGATATCTTCTACNACCCCGGTACCATC 1151
Qy 1050 TAGTAGATGCAAGCATGTCACCAATAAAGTTTAAAGCGCTGTAGCAACTGCAGGTGG 1109
Db 1152 TGTAACCTTACATCTTTATACAGGTATATCTCCTGAAATACAAATTCCTTTTGGTGG 1211
Qy 1110 TACTGCTACTTTAAATGCAATAAGTGCCTTGA 1142
Db 1212 TGCATACAATATTCCTTTAGTATCAGGTCTGA 1244

RESULT 15
US-08-316-239B-1
; Sequence 1, Application US/08316239B
; Patent No. 5679509
; GENERAL INFORMATION:
; APPLICANT: Wheeler, Cosette M.
; APPLICANT: Parmenter, Cheryl A.
; TITLE OF INVENTION: Methods and a Diagnostic Aid for
; TITLE OF INVENTION: Distinguishing a Subset of HPV that is Associated with an
; TITLE OF INVENTION: Increased Risk of Developing Cervical Dysplasia and
; TITLE OF INVENTION: Cervical Cancer
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jagtiani & Associates
; STREET: 6126 Rocky Way Court
; CITY: Centreville
; STATE: VA
; COUNTRY: USA
; ZIP: 20120-3400
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/316,239B
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jagtiani, Ajay A.
; REGISTRATION NUMBER: 35,205
; REFERENCE/DOCKET NUMBER: UNME-0001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 817-9453
; TELEFAX: (703) 803-9387
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7904 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
US-08-316-239B-1

Query Match
Best Local Similarity 44.1%; Pred. No. 0.46;
Matches 226; Conservative 0; Mismatches 284; Indels 3; Gaps 1;

Qy 633 CACACCTTGTCCGGCAATTAACCTGCTAATGTTGCTTAAGCTACTTTAGGTAATGATGC 692
Db 4966 CACTCCCACTAAACTTATACATATGATAATCTCGCATATGAAGGTATAGATGTGGATAA 5025
Qy 693 TACAATAACCGCATAGTAAGTACGTTGCATGCCCTGATGCTACTATAAGTGTGCTGCTGAGT 752

Db 5026 TACATTATATTTTCTAGTAATAGTAATATAATAGCTCCAGATCCCTGACTTTTT 5085
Qy 753 AAATAATTGGTAGCAGCAAAACACTGAATGCTACTAATTTGTGCTCCTTAAGCTTT---TACAA 809
Db 5086 GGATATAGTTGCTTTACATAGGCCAGCATTAACCTCTAGGCGTACTGGCATTTAGGTACAG 5145
Qy 810 TAATAATGCTCCTCAATTTCAATCCAGGTAAATAGTACATGCCTTACCTTGCCCGCAGCAATAA 869
Db 5146 TAGAATTGGTAAATAACAAACACTACGTACTCGTAGTGCAAAATCTATAGGTGCTTAAGT 5205
Qy 870 AGATTATGTTGCTGAAGCCCACTGCAGGTGGTCCCGCTACTTTAGCCAAATAATGTAATAT 929
Db 5206 ACATTATATTTATGATTAAAGTACTATTGATCTCTGCAAGAAATAGAAATACAAACTAT 5265
Qy 930 TGCATGCCCTGATGCTACTGCAATTTGCTAGTGGAGCAACTAATTTATGTAATATTAAC 989
Db 5266 AACACCTTCTACATATACTACCCTTCACATGCAGCCTCACCTACTTCTATTAATAATGG 5325
Qy 990 AGAATGCTAAATTTGCTGCTAACTTTTATTTTGTAGTGGTAATAATTTCTAGGCGAGGAG 1049
Db 5326 ATTATATGATATTTATGCAGATGACTTTTATACAGATACTTCTACAACCCCGGTACCATC 5385
Qy 1050 TAGTAGATGCAAGCATGTCAGCAATAAAGTTTAAAGCGCTGTAGCAACTGCAGGTGG 1109
Db 5386 TGTACCTCTACATCTTTATCAGGTTATATTCCTGCAAAATACAACTTCCTTTTGGTGG 5445
Qy 1110 TACTGCTACTTTAAATTTGCATAATGTGCCCTTGA 1142
Db 5446 TGCATACAATATTCCTTTAGTATCAGGTCTCTGA 5478

Search completed: February 16, 2003, 22:31:28
Job time : 139.938 secs

